

DOCUMENTED PLANT CHROMOSOME NUMBERS 1985:

1. MISCELLANEOUS COUNTS FROM ONTARIO AND QUEBEC

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Chromosome number determinations for individuals predominantly from Ontario and representing 11 genera are reported: all support previously published counts for the respective taxa. The need for documentation of such reports has been stated many times (e.g., Strother 1972; Semple et al. 1983). I hope that these contributions will assist others in accomplishing their goals.

MATERIALS AND METHODS

Chromosome counts were made from freshly prepared material following the procedures of Chmielewski and Semple (1983). Root-tip cells were taken from transplanted material for plants collected in the wild. Mitotic metaphase-stage cells were examined. Voucher specimens were deposited in the Herbarium of the Department of Biology, University of Waterloo (WAT). In citation, *Chmielewski* is abbreviated to *C.*

RESULTS

BALSAMINACEAE

IMPATIENS CAPENSIS Meerb. $2n = 20$. CANADA. ONTARIO. Waterloo Reg. Mun.: Univ. Waterloo, Laurel Creek, *C. 1207*.

BERBERIDACEAE

PODOPHYLLUM PELTATUM L. $2n = 12$. CANADA. ONTARIO. Waterloo Reg. Mun.: Univ. Waterloo, North Campus, *C. 1159*.

CAMPANULACEAE

LOBELIA SPICATA Lam. $2n = 14$. CANADA. ONTARIO. Oxford Co.: East Zorra Township, 4.9 km W of Cassel, *C. 1645*.

COMPOSITAE

SOLIDAGO ALTISSIMA L. $2n = 54$. CANADA. ONTARIO. Huron Co.: 5 km NE of Ethel, *C. 1659*.

SOLIDAGO BICOLOR L. $2n = 18$. CANADA. ONTARIO. Haldimand-Norfolk Reg. Mun.: Seneca Township, Abbey Rd., 3.4 km N of Hwy 54, *C. 2131*.

SOLIDAGO CAESIA L. $2n = 18$. CANADA. ONTARIO. Frontenac Co.: Olden Township, Sharbot Lake, *C. 2165*, Lambton Co.: Bosanquet Township, Lake Rd., S of Grand Bend, *C. & Ringius 1982*. Waterloo Reg. Mun.: North Dumfries Township, River Rd., 0.6 km N of Dumfries North 13, *C. 2129*.

SOLIDAGO GIGANTEA Ait. $2n = 36$. CANADA. ONTARIO. Lennox-Addington Co.: Kaladar Township, 6 km E of Kaladar, *C. 2182*. Northumberland Co.: Seymour Township, E of Cambellford, *C. 2145*.

SOLIDAGO HISPIDA Muhl. $2n = 18$. CANADA. ONTARIO. Frontenac Co.: Hinchinbrooke Township, 0.8 km S of Parham, *C. 2164*.

SOLIDAGO JUNCEA Ait. $2n = 18$. CANADA. ONTARIO. Perth Co.: Blanshard Township, N of Townline Rd., *C. 1893*.

SOLIDAGO PTARMICOIDES (Nees) Boivin. $2n = 18$. CANADA. QUEBEC. Timiskaming District: Ile du College, 9.6 km NW of Ville Marie, *C. & C. 1287*.

SOLIDAGO RIDDELLI Frank. $2n = 18$. CANADA. ONTARIO. Kent Co.: Dover Township, Ferry crossing south of Wallaceburg, *C. & Leeder 2110*.

SOLIDAGO RUGOSA Mill. $2n = 18$. CANADA. ONTARIO. Haldimand-Norfolk Reg. Mun.: Townsend Township, 3.7 km S of Waterford, *C. 1927*. Huron Co.: Morris Township, 3.8 km NW of Brussels, *C. 1664*. Kent Co.: Orford Township, Orford Con. 12, E of Moravian Indian Reserve, *C. & Leeder 2087*. Kent Co.: Zone Twp. Zone Sd. Rd. 5, 0.5 km N of Zone Con. 7, *C. & Leeder 2095*. Lennox-Addington Co.: Kaladar Township, 6 km E of Kaladar, *C. 2181*. Middlesex Co.: Caradoc Township, intersection of Caradoc Con. 7 and Caradoc Sd. Rd. 4, *C. 2218*. Northumberland Co.: Percy Township, Warkworth Hill, *C. 2142*. Northumberland Co.: Seymour Township, 2.6 km E of Petherwick Corners, *C. 2150*. Simcoe Co.: Tecumseh Township, intersection of Simcoe Rd. 10 and Hwy 9, *C. & Ringius 2012*. Wellington Co.: Puslinch Township, Puslinch Con. 4, 1 km E of Rozell Rd., *C. 2047*.

SOLIDAGO RUGOSA Mill. $2n = 36$. Kent Co.: Camden Township, 5.6 km SE of Wabash, *C. & Leeder 2102*.

SOLIDAGO SQUARROSA Muhl. $2n = 18$. CANADA. ONTARIO. Nipissing District: 24 km E of Whitney, C. & C. 1581.

SOLIDAGO ULIGINOSA Nutt. $2n = 18$. CANADA. ONTARIO. Nipissing District: Hunstville, C. & C. 1578. Peterborough Co.: Smith Township, NW of Peterborough, C. 2177.

TANACETUM VULGARE L. $2n = 18$. CANADA. ONTARIO. Brant Co.: Onondaga Township, intersection of Hwy 54 and Brant Co. 22, C. 1566. Waterloo Reg. Mun.: St. Jacobs, C. 1569.

LILIACEAE

CLINTONIA BOREALIS (Ait.) Raf. $2n = 28$. CANADA. ONTARIO. Waterloo Reg. Mun.: Univ. Waterloo, Main Campus, C. 1160.

ERYTHRONIUM AMERICANUM Ker. $2n = 24$. CANADA. ONTARIO. Waterloo Reg. Mun.: Univ. Waterloo, Main Campus, C. 1158.

POLYGONATUM BIFLORUM (Walt.) Ell. $2n = 30$. CANADA. ONTARIO. Waterloo Reg. Mun.: Conservation Drive, 0.5 km W of Erbsville, C. 1174.

TRILLIUM GRANDIFLORUM (Michx.) Salisb. $2n = 10$. CANADA. ONTARIO. Waterloo Reg. Mun.: Univ. Waterloo, Main Campus, C. 1161.

PLANTAGINACEAE

PLANTAGO MAJOR L. $2n = 12$. CANADA. ONTARIO. Waterloo Reg. Mun.: Univ. Waterloo, North Campus, C. 1209.

RANUNCULACEAE

RANUNCULUS REPENS L. $2n = 32$. CANADA. ONTARIO. Waterloo Reg. Mun.: Hwy 24, 6.0 km SW of Cambridge, C. 1162.

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REFERENCES

- CHMIELEWSKI, J. G. and J. C. SEMPLE. 1983. The cytogeography of *Aster lanceolatus*. III. Cytocology in southern Ontario. *Canad. J. Bot.* 61:1879-1886.
- SEMPLÉ, J. C., J. G. CHMIELEWSKI, and C. C. CHINNAPPA. 1983. Chromosome number determinations in *Aster* L. (Compositae) with comments on cytogeography, phylogeny and chromosome morphology. *Amer. J. Bot.* 70:1432-1443.
- STROTHER, J. L. 1972. Chromosome studies in western North American Compositae. *Amer. J. Bot.* 59:242-247.